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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,446	04/04/2006	Hans Peter Loebl	DE030345	9662
	7590 06/20/2007 LLECTUAL PROPERTY	EXAMINER		
P.O. BOX 3001			SÁN MARTIN, JAYDI A	
BRIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER	
			2834 ·	
•	•	•	MAIL DATE '	DELIVERY MODE
	•		06/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		1H
·	Application No.	Applicant(s)
Office Action Summers	10/574,446	LOEBL ET AL.
Office Action Summary	Examiner	Art Unit
The MAN INC DATE of the	Jaydi A. San Martin	2834
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re n. eriod will apply and will expire SIX (6) MONT tatute, cause the application to become ABA	ATION. ply be timely filed "HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status	,	
Responsive to communication(s) filed on 3 This action is FINAL . 2b) Since this application is in condition for all closed in accordance with the practice und	This action is non-final. Dwance except for formal matter	• •
Disposition of Claims		
4) Claim(s) 1-4 is/are pending in the applicating 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and subject to	ndrawn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Exar	miner.	
10) The drawing(s) filed on is/are: a)	accepted or b) ☐ objected to b	y the Examiner.
Applicant may not request that any objection to	- · · · · · · · · · · · · · · · · · · ·	• •
Replacement drawing sheet(s) including the co		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for form a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in Appriority documents have been in the priority documents have been in the priority documents have been in the priority documents.	oplication No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)		ummary (PTO-413)
Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		/Mail Date formal Patent Application

DETAILED ACTION

Specification

1. Amendments to the specification were noted. However, the disclosure is referring to the claims in page 2, paragraph 2 (line 9).

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Feucht et al (US 2006/01254890) in view of Kobrin.

Feucht discloses a sensor having a piezoelectric layer (4), and electrodes (5, 6) formed on the top of the piezoelectric layer, wherein a sensing layer (8) covers, at least partially, the electrodes.

However, Feucht fails to disclose the resonator comprising an acoustic reflector formed between the piezoelectric layer and a substrate.

Kobrin discloses the use of the acoustic reflector to provide acoustic isolation between the thin film acoustic resonator and the substrate. Therefore, it would have been obvious at the time of the invention was made to use the reflector as disclosed by Kobrin to provide acoustic isolation.

4. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Feucht et al (US 2006/01254890) in view of Kim et al. (US 6293136)

Feucht discloses the invention as explained above, but fails to disclose the sensor comprising an acoustic reflector, the first and the second electrode being interdigitated electrode, the sensor comprises a plurality of individually addressable resonator, and the sensing layers of the different resonators comprising different materials.

'Kim discloses the idt's, the acoustic reflector and different coatings.

Kim's invention eliminates the need to provide other relatively more complicated temperature compensating structure or to maintain the device at a predetermined constant temperature, and further discloses that the invention can be used to detect different chemicals or substances. Therefore, it would have been obvious at the time of the invention was made to use idt's, an acoustic reflector and different sensing layers to have a sensor which can be used at different temperatures and a sensor that could measure different substances.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jaydi A. San Martin whose telephone number is 571-272-2018. The examiner can normally be reached on M-Th 9-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2834

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jaydi A. San Martin

Patent Examiner-Class 310

Art Unit 2834

6/15/07